

Serial No. (to be assigned)

IN THE CLAIMS:

Please cancel claims 2 through 40 herein. New claims 41 through 79 have been added herein. None of the claims have been amended. All of the pending claims are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as amended.

Listing of Claims:

1. (Original) **“INDICATIVE SENSOR FOR STOCK CONTROL”**, characterized by the fact of comprising a sensor (1) featuring:
a hollow tube (2) with a first open end (3) and a second closed end (4);
a slideable piston (5) inside the tube (2);
a fluid (O) or a spring (M) contained in a compartment (C1), inside the tube (2), comprised between the piston (5) and the end (4);
a fluid (H) contained in a compartment (C2), inside the tube (2), comprised between the piston (5) and the end (3);
media to provide at least one indication of the occurrence of a temperature rise in the ambient in which the sensor (1) is immersed.

2.- 40. (Cancelled)

Please add the following new claims 41 through 79:

41. (New) A sensor for stock control, comprising:
a hollow tube having an open end and a closed end;
a piston positioned inside the hollow tube, wherein the piston creates a first space between a first side of the piston and the open end and a second space between a second side of the piston and the closed end, the piston having a circumference in contact with the hollow tube;
a first fluid in the first space;
a force generating object in the second space; and
media associated with the hollow tube to provide at least one indication of the occurrence of a temperature rise in an ambient in which the sensor is immersed.

42. (New) The sensor of Claim 41, wherein the piston is irreversibly movable within the hollow tube.

43. (New) The sensor of Claim 41, wherein the first fluid in the first space is frozen in a solid state.

44. (New) The sensor of Claim 43, further comprising a releasable cap positioned in the open end of the hollow tube wherein the releasable cap maintains the first fluid in the first space and wherein the releasable cap may be released upon expansion of the first fluid due to freezing.

45. (New) The sensor of Claim 41, wherein the force generating object comprises a gaseous fluid.

46. (New) The sensor of Claim 41, wherein the force generating object exerts a force on the second side of the piston thereby tending to push the piston towards the open end of the hollow tube.

47. (New) The sensor of Claim 41, wherein the force generating object comprises a spring.

48. (New) The sensor of Claim 41, wherein the first fluid prevents movement of the piston when the first fluid is frozen.

49. (New) The sensor of Claim 41, wherein the first fluid is initially in a frozen state and wherein exposure of the sensor to an ambient temperature above a melting point of the first fluid liquefies at least a portion of the frozen first fluid allowing movement of the piston.

50. (New) The sensor of Claim 41, wherein the first fluid comprises a non-toxic fluid.

51. (New) The sensor of Claim 41, wherein the hollow tube comprises a hollow tube constructed of a rigid material.

52. (New) The sensor of Claim 41, wherein the media associated with the hollow tube to provide at least one indication of the occurrence of a temperature rise in an ambient in which the sensor is immersed comprises an engraving on the hollow tube coinciding with the position of the piston within the tube when the first fluid is frozen.

53. (New) The sensor of Claim 41, further comprising movable laminar petals positioned within the hollow tube between the first space and the second space.

54. (New) The sensor of Claim 53, wherein the movable laminar petals exhibit a closed position when the first fluid is in a frozen state within the first space.

55. (New) The sensor of Claim 53, wherein the movable laminar petals exhibit an open position when the first fluid is in a non-frozen or partially thawed state.

56. (New) The sensor of Claim 53, wherein the movable laminar petals and the piston feature colors that are contrast each other.

57. (New) The sensor of Claim 41, further comprising at least one additive mixed with the first fluid, wherein the at least one additive is selected from the group consisting of jelly, salts, fluid freezing modifiers, and fluid thawing modifiers.

58. (New) The sensor of Claim 41, further comprising a granulated solid material mixed with the first fluid, wherein the granulated solid material promotes nucleation of the first fluid.

59. (New) The sensor of Claim 41, further comprising a tensoactive material mixed with the first fluid, wherein the tensoactive material facilitates the movement of ice crystals in the first fluid when in a partially frozen state.

60. (New) The sensor of Claim 41, further comprising thermal insulation surrounding at least a portion of the sensor.

61. (New) The sensor of Claim 41, further comprising:
a releasable cap positioned in the open end of the hollow tube wherein the releasable cap maintains the first fluid in the first space and wherein the releasable cap may be released upon expansion of the first fluid due to freezing; and
a communication device connected to the releasable cap and the hollow tube, wherein the communication device maintains connection between the releasable cap and the hollow tube when the releasable cap is detached from the open end of the hollow tube.

Serial No. (to be assigned)

62. (New) The sensor of Claim 41, further comprising a collecting receptor for collecting any first fluid expelled from the first space in the hollow tube.

63. (New) The sensor of Claim 62, wherein the collecting receptor further comprises an absorbent material for absorbing any first fluid collected by the collecting receptor.

64. (New) The sensor of Claim 63, wherein the absorbent material comprises an absorbent material capable of reacting with the first fluid to promote a color change of the absorbent material.

65. (New) The sensor of Claim 41, further comprising a breakable thin membrane attached to the open end of the hollow tube, wherein the thin membrane contains the first fluid in the first space of the hollow tube.

66. (New) The sensor of Claim 41, further comprising a feature for preventing movement of the first fluid in a frozen state within the first space, the feature selected from the group consisting of a ring-shaped concavity and a shrivel.

67. (New) The sensor of Claim 41, further comprising a coarse limiter inside the hollow tube to limit the movement of the piston within the hollow tube.

68. (New) The sensor of Claim 41, further comprising an additive mixed with the first fluid, the additive selected from the group consisting of dyes, pigments, and coloring.

69. (New) The sensor of Claim 41, wherein the piston further comprises at least one horizontal stripe on the circumference of the piston in contact with the hollow tube.

Serial No. (to be assigned)

70. (New) The sensor of Claim 41, wherein the piston further comprises a piston with at least the first side or the second side having a shape selected from the group consisting of a concave shape and a convex shape.

71. (New) A sensor, comprising:
a hollow form having an open end and a closed end;
a moveable piston positioned in the closed end of the hollow form;
a cap positioned in the open end of the hollow form;
a relaxed spring attached to the moveable piston and the cap; and
a fluid in the hollow form between the moveable piston and the cap, the fluid capable of being frozen.

72. (New) The sensor of Claim 71, wherein the hollow form comprises a hollow form having a shape selected from the group consisting of a cross-sectional circular tube, a cross-sectional square tube, and a cross-sectional polygonal tube.

73. (New) The sensor of Claim 71, further comprising a hole in the closed end of the hollow form, the hole allowing air to flow into the hollow form as the moveable piston moves within the hollow form.

74. (New) The sensor of Claim 71, further comprising spaced markings on the hollow form, the spaced markings in a position relative to the moveable piston.

75. (New) A method for monitoring frozen goods, comprising:
placing a sensor within the vicinity of a frozen good to be monitored, the sensor comprising:
a hollow form having an open end and a closed end;
a piston positioned inside the hollow form, wherein the piston creates a first space between a first side of the piston and the open end and a second space between a second side of the piston and the closed end, the piston having a surface in contact with the hollow form;
a first fluid in the first space, wherein the first fluid is in a frozen state; and
a force generating object in the second space.

76. (New) The method of Claim 75, wherein the first fluid has a melting point similar to a melting point of a fluid in the frozen good.

77. (New) The method of Claim 75, wherein placing the sensor within the vicinity of a frozen good comprises placing at least one sensor at a location relative to the frozen good, wherein the location is selected from the group consisting of placing at least one sensor on the outside of the frozen good, placing the at least one sensor in the frozen good, and placing the at least one sensor in a blister pack with the frozen good.

78. (New) The method of Claim 75, wherein the sensor further comprises a thermal insulation surrounding at least a portion of the sensor.

79. (New) The method of Claim 75, wherein the frozen good comprises at least one frozen good selected from the group consisting of food, blood bags, medicine, resins, and pharmaceuticals.